

**DATE:** October 26, 2004  
**TO:** Transportation Conformity Working Group  
**FROM:** Ted Harris, Environmental Planner, harrist@scag.ca.gov, (213) 236-1916  
**RE:** Proposed Process for the 8-hour Ozone Standard

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*Summary:*

This memo outlines a proposed process to make a conformity determination for the 8-hour ozone standard on the 2004 Regional Transportation Plan (RTP) and the 2004 Regional Transportation Improvement Program (RTIP). The new federal conformity regulation for 8-hour ozone requires the Southern California Association of Governments (SCAG) to receive approval from the United States Department of Transportation (US DOT) on SCAG's conformity determination by June 15, 2005 or the region risks a conformity lapse.

*Key 8-hour Ozone Requirements:*

Non-attainment area designations for the new 8-hour ozone standard became effective on June 15, 2004, and an approved conformity determination is required by June 15, 2005, one year after the effective date. Non-attainment areas in the SCAG region are presented in Table 1.

**Table 1: SCAG Region – Eight-hour Ozone Non-attainment Areas**

| Non-attainment Area   | Classification | Maximum Attainment Date |
|---|----------------|-------------------------|
| South Coast Air Basin (SCAB)  | Severe-17      | 2021                    |
| Coachella Valley – Salton Sea Air Basin (SSAB)  | Serious        | 2013                    |
| Western Portion of Mojave Desert Air Basin (MDAB) [San Bernardino County and Antelope Valley] | Moderate       | 2010                    |
| Ventura County – South Central Coast Air Basin (SCCAB)  | Moderate       | 2010                    |
| Imperial County (SSAB)  | Marginal       | 2007                    |

Table 1 presents new attainment years that must be evaluated under the 8-hour standard. New attainment years in the region include 2007 for Imperial County, 2010 for the Western portion of the Mojave Desert Air Basin, 2010 for Ventura County (South Central Coast Air Basin), 2013 for Coachella Valley (Salton Sea Air Basin), and 2021 for the South Coast Air Basin (SCAB).

Until new 8-hour budgets are approved (expected in 2007), 1-hour budgets generally apply. The new rule requires the use of the existing ozone budgets where existing 1-hour and new 8-hour boundaries are the same, unless interagency consultation determines another emission test is more appropriate (93.109(e)(2)(i)). Where an existing 1-hour area is divided into several 8-hour areas, the 1-hour budgets can be divided into the appropriate geography of the 8-hour areas (93.109(e)(2)(ii)).

*Proposed Process for 8-hour ozone conformity determination on the 2004 RTP and RTIP*

1. Perform supplemental transportation and emission model runs to cover additional attainment years, including 2007 for Imperial County, 2013 for Coachella Valley, and 2021 for SCAB (in addition to existing model runs for 2010).
2. Use 1-hour budgets as-is for Ventura County and SCAB.
3. Use appropriate portions of Southeast Desert Air Basin (SEDAB) 1-hour budgets for Coachella Valley and the Western Mojave Desert Air Basin. One-hour budgets were prepared for Antelope Valley AQMD, Mojave Desert AQMD, and Coachella Valley (SCAQMD) SIP submittals, and ARB summed these sub-areas to arrive at the combined 1-hour budgets for SEDAB (Table 2). The 1-hour sub-area SIP input for Coachella Valley can be used as the appropriate 1-hour budget for the 8-hour standard (Table 3). Similarly, 1-hour budgets for Mojave Desert and Antelope Valley that were given to ARB as part of the 1-hour SIP budgets can be summed to provide the appropriate budgets for the combined Western Mojave Desert non-attainment area (Table 4). Table 5 summarizes the appropriate budgets to use for 8-hour ozone regional emissions analysis for both Coachella Valley and Western Mojave Desert Air Basin.

**Table 2: Southeast Desert 1-hr Ozone Emissions Budgets (2003/2004 budgets)**

| Area                     | VOC (t/d) |      | NOx (t/d) |      |
|--------------------------|-----------|------|-----------|------|
|                          | 2005      | 2007 | 2005      | 2007 |
| Coachella Valley (SED)   | 4.6       | 4.1  | 12.3      | 11.1 |
| San Bernardino Co. (SED) | 15.6      | 13.5 | 45.5      | 42.5 |
| Antelope Valley (SED)    | 6.3       | 5.6  | 10.5      | 9.6  |
| Total                    | 26.5      | 23.2 | 68.3      | 63.2 |

Source: ARB

**Table 3: Coachella Valley – 8-hr Ozone**

| Area                    | VOC (t/d) |      | NOx (t/d) |      |
|-------------------------|-----------|------|-----------|------|
|                         | 2005      | 2007 | 2005      | 2007 |
| Coachella Valley (SSAB) | 4.6       | 4.1  | 12.3      | 11.1 |

**Table 4: Western MDAB - 8-hr Ozone**

| Area                      | VOC (t/d)   |             | NOx (t/d) |             |
|---------------------------|-------------|-------------|-----------|-------------|
|                           | 2005        | 2007        | 2005      | 2007        |
| San Bernardino Co. (MDAB) | 15.6        | 13.5        | 45.5      | 42.5        |
| Antelope Valley (MDAB)    | 6.3         | 5.6         | 10.5      | 9.6         |
| <b>Total</b>              | <b>21.9</b> | <b>19.1</b> | <b>56</b> | <b>52.1</b> |

**Table 5: Overview of Coachella Valley & W. MDAB 8-hr Ozone Budgets**

| Area                                 | VOC (t/d)   |             | NOx (t/d)   |             |
|--------------------------------------|-------------|-------------|-------------|-------------|
|                                      | 2005        | 2007        | 2005        | 2007        |
| SED Emissions Budgets - 1hr (ARB)    | 26.5        | 23.2        | 68.3        | 63.2        |
| <b>Coachella Valley (SSAB) - 8hr</b> | <b>4.6</b>  | <b>4.1</b>  | <b>12.3</b> | <b>11.1</b> |
| <b>Western MDAB - 8hr</b>            | <b>21.9</b> | <b>19.1</b> | <b>56.0</b> | <b>52.1</b> |

Source: ARB

4. Use alternative emissions tests for Imperial county because there are no 1-hour ozone budgets. Imperial County is classified as marginal and can use either the build less-than-or-equal-to no-build test or the no-greater-than-2002 test.
5. In addition to the new emissions analysis, use the existing conformity findings for the 2004 RTP and 2004 RTIP.
6. SCAG expects to present the proposed 8-hour RTP and RTIP conformity analysis at the next Transportation Conformity Working Group meeting.

Transportation  
Conformity  
Working Group

## Proposed Process for 8-hour Ozone

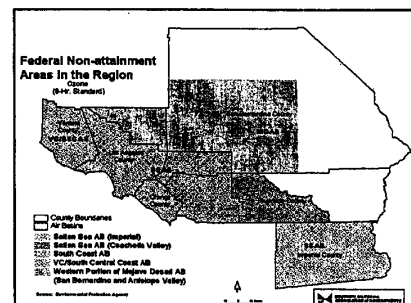
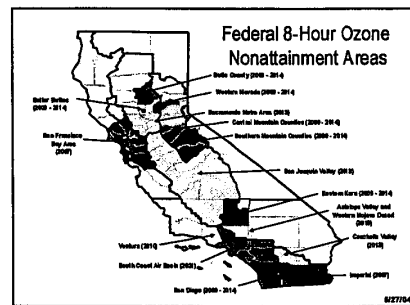
Ted Harris  
Southern California  
Association of Governments  
October 26, 2004

8-hour ozone  
Overview

- Requirements
- Boundaries and Budgets
- Proposed Process
- Revocation of the 1-hour ozone standard

8-hour  
Ozone  
Standard

- Effective date of designation: June 15, 2004
- 8-hour conformity applies: June 15, 2005
  - US DOT must approve the determination by 6/15/05 or conformity lapse
- Generally adequate 1-hour ozone budgets apply until new 8-hour budgets are approved (~2007)



SCAG 8-hour  
Ozone  
Non-attainment  
Areas

| Non-attainment Area   | Class.    | Maximum Attainment Date |
|---|-----------|-------------------------|
| South Coast Air Basin (SCAB)  | Severe-17 | 2021                    |
| Coachella Valley Salton Sea Air Basin (SSAB)  | Serious   | 2013                    |
| Western Portion of Mojave Desert Air Basin (MDAB) (San Bernardino County and Antelope Valley) | Moderate  | 2010                    |
| Ventura County South Central Coast Air Basin (SCCAB)  | Moderate  | 2010                    |
| Imperial County (SSAB)  | Marginal  | 2007                    |

**Two Boundary Scenarios in the SCAG Region**

- = 1-hour area
- ◐ = 8-hour area

- 1) Areas where the 8-hour boundary = 1-hour boundary
- 2) Areas where the 8-hour boundary < 1-hour boundary

Proposed 8-hour Ozone Procs

**Scenario 1 Budget Test**

- = 1-hour area
- ◐ = 8-hour area

- Area uses 1-hour budgets as-is since boundaries are the same (93.109(e)(2)(i))
- Use budget test (93.118), with the 1-hour budgets for 8-hour conformity (unless another test is more appropriate)

Proposed 8-hour Ozone Procs

**SCAB and Ventura County are Scenario 1**

- = 1-hour area
- ◐ = 8-hour area

- South Coast Air Basin and Ventura County should use 1-hour budgets for 8-hour conformity budget tests

Proposed 8-hour Ozone Procs

**Scenario 2 Budget Test**

- = 1-hour area
- ◐ = 8-hour area

- Identified appropriate portions of adequate 1-hour budgets through consultation
- Use these 1-hour budgets for the 8-hour budget test (93.109(e)(2)(ii))

Proposed 8-hour Ozone Procs

**Western MDAB and Coachella Valley are Scenario 2**

- = 1-hour area
- ◐ = 8-hour area

- Western Mojave Desert Air Basin should use the appropriate portion of the Southeast Desert 1-hour budget
  - San Bernardino Co. plus Antelope Valley
- Coachella Valley should use the Coachella Valley portion of the Southeast Desert 1-hour budget

Proposed 8-hour Ozone Procs

**Area without 1-hour SIP: Imperial Co.**

- Marginal and subpart 1 ("basic") areas without 1-hour SIPs can choose between:
  - build/no-build, OR
  - no-greater-than-2002 test
- Imperial County is classified as marginal and has no 1-hour ozone budgets
- Imperial County can use either interim emissions test

Proposed 8-hour Ozone Procs

**Process for 8-hour Conformity Determination**

- Interagency consultation
- Supplemental emissions analysis for new attainment years
  - Imperial County-2007
  - Coachella Valley-2013
  - SCAB-2021
- Use existing conformity findings for 2004 RTP/RTIP with supplemental analysis
- Public participation process
- US DOT approval

Imperial County  
Proposed 8-hour Ozone Procd 1.5

**Revocation of 1-hour ozone standard**

- Approved 1-hour budgets apply for 8-hour until new AQMP/SIP (2007)
- SIP control measures remain with same schedules
  - Long-term measures
  - TCMs

Imperial County  
Proposed 8-hour Ozone Procd 1.6

**Next Step**

- Present conformity analysis at the next TCWG

Imperial County  
Proposed 8-hour Ozone Procd 1.6